JP 62-295029

AN 1988:483592 CAPLUS

DN 109:83592

TI Sealed liquid crystal display device

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PA Hitachi, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp. CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G02F001-133 ICS G09F009-30

ICA C09J003-16

CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN. CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE
PI JP 62295029 A2 19871222 JP 1986-138052 19860616
GI

$$CH_2-CH-CH_2$$
 $OR)_{m-0}$ $O-(R-0)_{n}-CH_2$

$$\begin{cases} CH-CH_2 \\ OH \end{cases} (OR)-O \longrightarrow \begin{bmatrix} R^1 \\ C \\ R^2 \end{bmatrix} O-(R-O)_n-CH_2-CH-CH_2 \\ O I$$

AB The title device is characterized by the use of a sealant from an epoxy resin contg. a novolak phenolic resin hardener and >10 wt.% flexible epoxy

resin, fillers of Al2O3 and/or SiO2 (< 0.05 .mu.m in av. particle diam.) <26 vol.%, and an imidazole compd. curing accelerator 1 wt.% based on the epoxy resin. Thus, a novolak-type epoxy resin was mixed with a flexible epoxy resin [e.g. I (R, R1, R2 = alkyl or OH)]. The shock resistance and the moisture resistance of a liq.-crystal display device sealed with the resin were improved.

ST liq crystal device epoxy resin; silica filler epoxy resin sealant; alumina

epoxy resin sealant display

IT Epoxy resins, uses and miscellaneous

RL: USES (Uses)

(sealants from, for liq. crystal display devices)

IT Optical imaging devices

(liq.-crystal, epoxy resin sealant compns. for)

IT 23996-25-0

RL: USES (Uses)

(epoxy resin compn. contg., for sealing of liq. crystal display devices)

IT 115566-67-1

RL: USES (Uses)
 (epoxy resin compn. contg., for sealing of liq.-crystal display
 devices)

IT 1344-28-1, uses and miscellaneous 7631-86-9, Silica, uses and
miscellaneous

RL: USES (Uses)

(fillers, in epoxy resin sealant compns. for liq.-crystal display devices) $\ \ \,$

II 11121-15-6, Adeka Resin EP 4000 25068-38-6, Epikote 1001
RL: USES (Uses)

(sealant from, for liq.-crystal display devices)

11121-15-6 REGISTRY RN CN Poly(oxy(methyl-1,2-ethanediyl)), .alpha.,.alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega.-(oxiranylmethoxy)-, homopolymer (9CI) (CA INDEX NAME) OTHER NAMES: Adeka EP 4000 CN Adeka Resin EP 4000 CN ADK 4000 CN **EP 4000** CN Epiclon 717 CN Gurishieru BPP 350 CN Rikaresin BPO 20E CN 54667-37-7, 60267-15-4, 63278-42-2, 39354-76-2 DR ((C3 H6 O)n (C3 H6 O)n C21 H24 O4)x MF PMS, COM CI Epoxy resin, Polyether PCT STN Files: CA, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, USPATFULL LCCM CRN 55236-42-5 (C3 H6 O)n (C3 H6 O)n C21 H24 O4 CMF CCI IDS, PMS

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$$CH_2-O$$
 $(C_3H_6)-O$ n Me Me O

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$$-(c_3H_6)$$
 $- c_{H_2}$ $- c_{H_2}$

- 93 REFERENCES IN FILE CA (1967 TO DATE)
- 23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 93 REFERENCES IN FILE CAPLUS (1967 TO DATE)